

SK Chemicals SKYTHANE® L194A Polycaprolactone Based Thermoplastic Polyurethane Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Ether Grade

Material Notes:

Description: SK Chemicals has supplied Thermoplastic Polyurethane Elastomer (TPU) under the name of SKYTHANE. Applications include: Keyboard Covers, Outsoles of Soccer Shoes, Wire and Cable, Airbags, Sheets and Film, Hoses and Tubing, Shoe Components, Fire Hoses. Information provided by SK Chemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SK-Chemicals-SKYTHANE-L194A-Polycaprolactone-Based-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	96	96	ASTM D2240
Hardness, Shore D	53	53	ASTM D2240
Tensile Strength, Ultimate	49.0 MPa	7110 psi	ASTM D412
Elongation at Break	500 %	500 %	ASTM D412
100% Modulus	0.0159 GPa	2.30 ksi	ASTM D412
300% Modulus	0.0352 GPa	5.10 ksi	ASTM D412
Resilience	37	37	Vertical Rebound; ASTM D2632
Tear Strength	137 kN/m	784 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	30	30	H18 wheel, 1000g load; ASTM D1044

Thermal Properties	Metric	English	Comments
Vicat Softening Point	130 Â°C	266 Â°F	ASTM D1525

Processing Properties	Metric	English	Comments
Processing Temperature	205 Â°C	401 Â°F	Transition Temperature
	205 Â°C	401 Â°F	Metering Temperature
Middle Barrel Temperature	200 Â°C	392 Â°F	

Processing Properties	Metric	English	Comments
Zone 1	190 Â°C	374 Â°F	
Zone 2	195 Â°C	383 Â°F	
Zone 3	200 Â°C	392 Â°F	
Zone 4	205 Â°C	401 Â°F	
Adapter Temperature	205 Â°C	401 Â°F	
Die Temperature	205 Â°C	401 Â°F	Tip
	210 Â°C	410 Â°F	Body
Mold Temperature	20.0 - 40.0 Â°C	68.0 - 104 Â°F	

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